

Socket No.: PF-0539 USN

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By: Joyce Abriam Printed: Joyce Abriam

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Lal et al.

Title: PROTEINS REGULATING GENE EXPRESSION

Serial No.: 09/701,674

Filing Date: To Be Assigned

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

United States Patent and Trademark Office  
Box Sequence, P.O. Box 2327  
Arlington, VA 22202

**SUBSTITUTE SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING**

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The substitute diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). No new matter has been added.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 8 Nov 2002

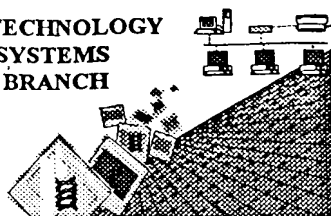
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BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/701,674  
Source: Pat/09 Rush  
Date Processed by STIC: 8/26/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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Revised 01/29/2002



pr/09

## RAW SEQUENCE LISTING

DATE: 08/26/2002

PATENT APPLICATION: US/09/701,674

TIME: 13:40:35

Input Set : A:\pf-0539usn\_seqlist.txt

Output Set: N:\CRF3\08262002\I701674.raw

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.  
 5 LAL, Preeti  
 6 YUE, Henry  
 7 TANG, Y. Tom  
 8 HILLMAN, Jennifer L.  
 9 BANDMAN, Olga  
 10 CORLEY, Neil C.  
 11 GUEGLER, Karl J.  
 12 GORGONE, Gina A.  
 13 BAUGHN, Mariah R.  
 14 PATTERSON, Chandra  
 15 LU, Dyung Aina M.  
 17 <120> TITLE OF INVENTION: PROTEINS REGULATING GENE EXPRESSION  
 19 <130> FILE REFERENCE: PF-0539 PCT  
 -> 21 <140> CURRENT APPLICATION NUMBER: US/09/701,674  
 -> 22 <141> CURRENT FILING DATE: 2002-08-26  
 24 <150> PRIOR APPLICATION NUMBER: 60/089,029; 60/094,575; 60/104,624  
 -> 25 <151> PRIOR FILING DATE: 1998-06-12; 1998-07-29; 1998-10-14  
 27 <160> NUMBER OF SEQ ID NOS: 62  
 29 <170> SOFTWARE: PERL Program

see pr-1-2  
 Does Not Comply  
 Corrected Diskette Needed

## RORED SEQUENCES

2400 <210> SEQ ID NO: 36  
 2401 <211> LENGTH: 2402  
 2402 <212> TYPE: DNA  
 2403 <213> ORGANISM: Homo sapiens  
 2405 <220> FEATURE:  
 2406 <221> NAME/KEY: misc\_feature  
 2407 <223> OTHER INFORMATION: Incyte Clone No.: 1509715  
 2409 <400> SEQUENCE: 36  
 2410 agcgcgggac aaaggggaagc gaagccggag ctgcgggagc tttttctgcc cgcgggtgtct 60  
 2411 cagattcatt cttaaggaac tgagaactta atcttccaaa atgtcaaaaa gaccatctta 120  
 2412 tgccccacct cccacccag ctctgcaac acaaatgcc agcacaccag ggtttgtggg 180  
 2413 atacaatcca tacagtcac tcgctacaa caactacag ctgggagggg aaccggggca 240  
 2414 ccaacagccg ggtaacggca tctctggta tcacgattcc aaaaccccca aagccaccag 300  
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 2416 ccaaccctga cctaaagttg tgggagattg gcaagattat tgggtggcatg tggcgagatc 420  
 2417 tcaactgatga agaaaaacaa gaatatatta acgaatacga agcagaaaag atagagtaca 480  
 2418 atgaatctat gaaggcctat cataattccc ccgcgtacct tgcttacata aatgcaaaaa 540  
 2419 gtcgtgcaga agctgttta gaggaagaaa gtcgacagag acaatctgc atggagaaaag 600  
 2420 gagaaccgta catgagcatt cagcctgctg aagatccaga tgattatgat gatggctttt 660

place prior  
 application number  
 directly above its  
 filing date

list  
 separately

see  
 p.2

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/701,674

DATE: 08/26/2002  
TIME: 13:40:35

Input Set : A:\pf-0539usn\_seqlist.txt  
Output Set : N:\CRF3\08262002\I701674.raw

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2422 ttagtgagag tgtggtgccg gacgttcggt cagttgtcac aacagctaga atgcaggtec 780
2423 tcaaacggca ggtccagtc ttaatgggtc atcagcgaaa actagaagct gaacttcttc 840
2424 aatatagagga acgacaccag gagaagaaga ggaaattcct ggaaagcaca gattcattta 900
2425 acaatgaact taaaagggtg tgcggtctga aagtagaagt ggatatggag aaaattgcag 960
2426 ctgagattgc acaggcagag gaacaggccc gcaaaaggca ggaggaaagg gagaaggagg 1020
2427 ccgcagagca agctgagcgc agtcagagca gcacgttcc tgaggaagaa caagcagcta 1080
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2435 tcacctttct taagtgttgt gaagatggct cttttctttg gatcttggtt ctageccctca 1560
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2441 agtgtagtgt gtaactaact acacttggat cttactgatc cagaaatagt ccccatagtt 1920
2442 agagtgttta cttatgaagt ggttattaaa gtgaacacag cacatataca ttatctatac 1980
2443 tgctttttgt tatgattaat actgggtatg ttctggtaaa tccatcctta ttulatagaa 2040
2444 aaaaaattac ttttttaccg ggttttccaa agacagaata gatcacaagg cteaaggaat 2100
2445 ttaatattct tgtaatggac tagataatc aaactgatta gccattcca gaagaaaaac 2160
2446 agctgggaat taagttaatc cacttgaaat tgttttaccg taatcagaac atccaaacct 2220
2447 caaggctcag gatcccatag accagagccc acctttttga taaacttagt aaagtcttgg 2280
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2449 ctgaatagtg gtatatctga ttgtatatgt ttcttaaagg tccaaatgta ataaaaaaaa 2400
-> 2450 aaaaaaaaaa aaaaaaaaaa
-> 2451 2418

```

*move  
cumulative  
base total  
up one line*

*FBI* Use of n or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 08/26/2002

PATENT APPLICATION: US/09/701,674

TIME: 13:40:36

Input Set : A:\pf-0539usn\_seqlist.txt

Output Set: N:\CRF3\08262002\I701674.raw

21 M:270 C: Current Application Number differs, Replaced Current Application Number  
22 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
25 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
281 M:283 W: Missing Blank Line separator, <220> field identifier  
319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:210  
2356 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2358 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2360 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2362 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2364 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2366 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2374 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
2375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:60  
2389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:840  
2390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:900  
2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:960  
2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1020  
2393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1080  
2394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1140  
2395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1200  
2396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1260  
2397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1320  
2450 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:2418 SEQ:36  
2451 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2402 Found:2418 SEQ:36  
2480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:660  
2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:720  
2482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:780  
2483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:840  
2697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:2220  
2813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:60  
2814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:120  
2815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:180  
3153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:1920  
3594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:1200